

# Unimode 10 Field Software Change Procedure

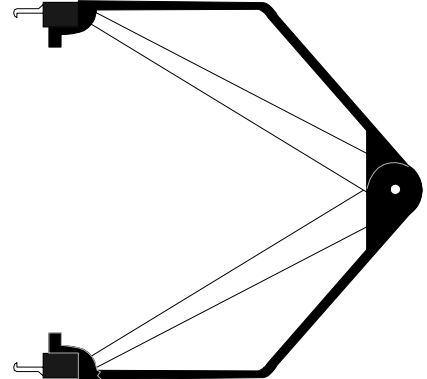
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## Firmware Change

This procedure outlines the mechanical installation steps required to install a PROM in the Unimode 10.

### ***Handling precautions for integrated circuits***

Static electricity can destroy integrated circuits (ICs)! To prevent damage to the PROM, a wrist strap and a static-free PLCC IC insertion/extraction tool is highly recommended. The manufacturer cannot be responsible for damage to the PROM as a result of improper handling.



**PLCC IC Extraction Tool**

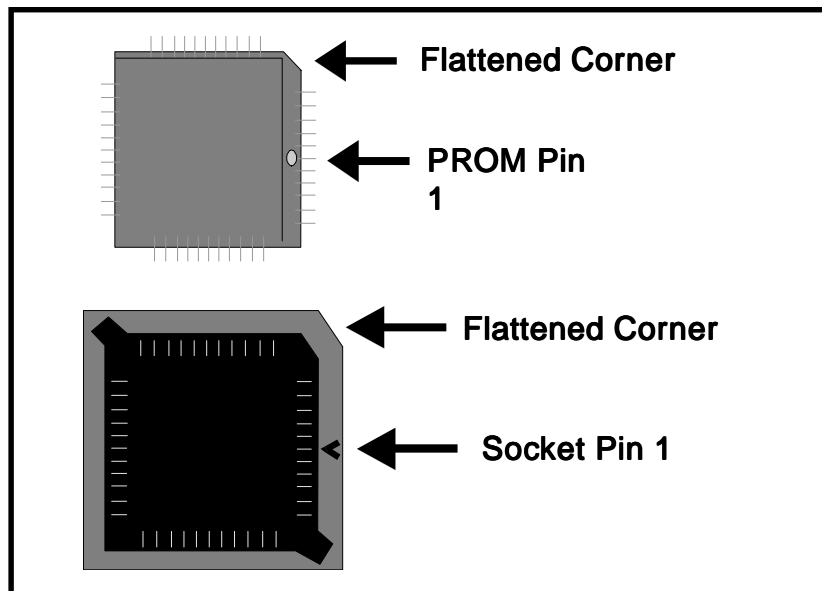
### ***System Power Sources***

Always remove primary and secondary power before working on the system!

1. Disconnect battery backup power before working on the system!
2. Proceed by disconnecting AC power to the panel at the main service circuit breaker (not the circuit breaker on the fire control panel's power supply).
3. Wait 60 seconds to allow for capacitive discharge before touching any of the system's components.
4. Reverse the procedure for powering up the system - AC first, then batteries.

### ***Integrated Circuit Pin Conversion***

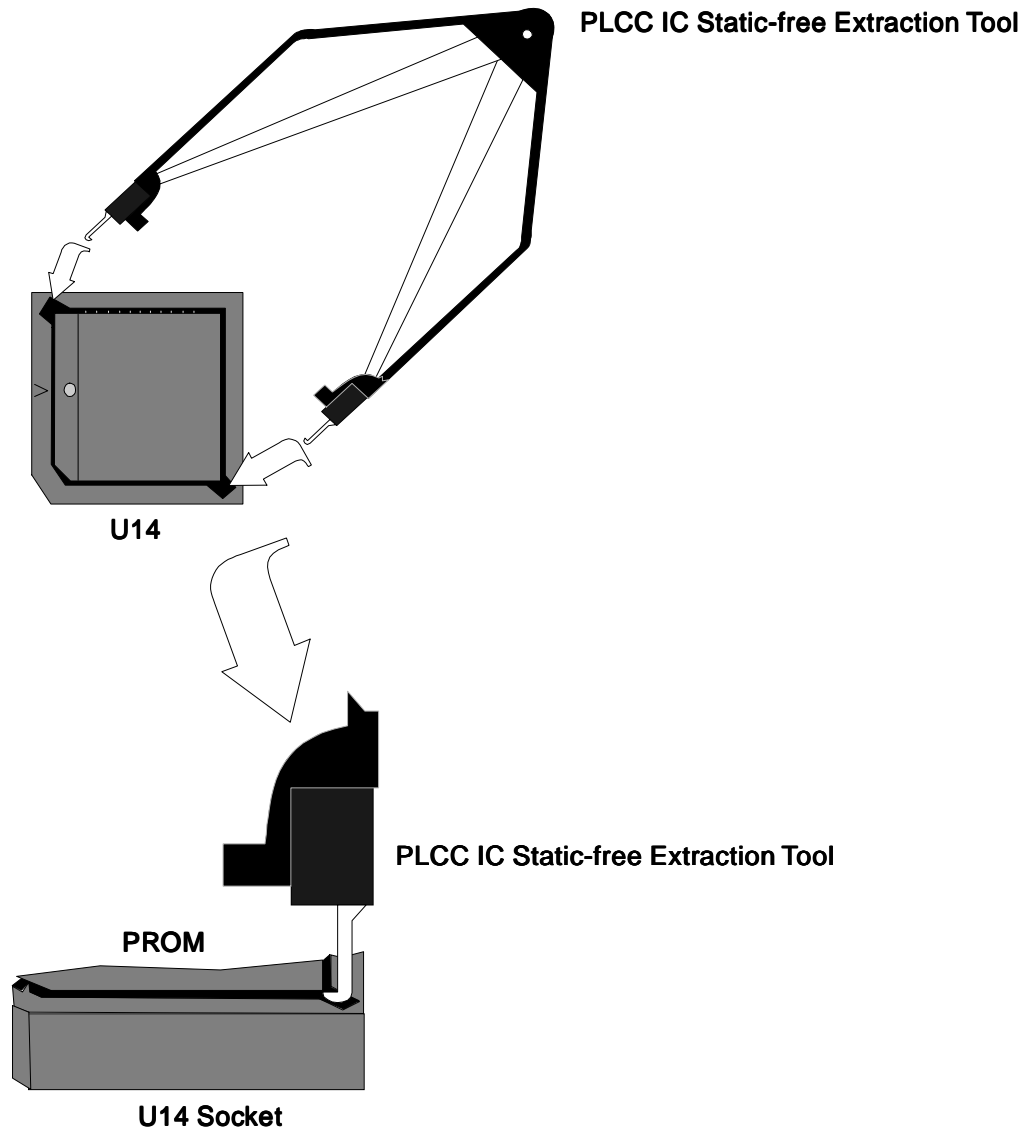
Observe proper orientation of any IC removed or installed! Note location of Pin 1 with respect to the flattened corner and dot on the body of the IC and the relationship to the flattened corner on the IC socket. The replacement PROM must be installed in the same manner as the PROM removed. Failure to observe this orientation will result in destruction of the PROM.

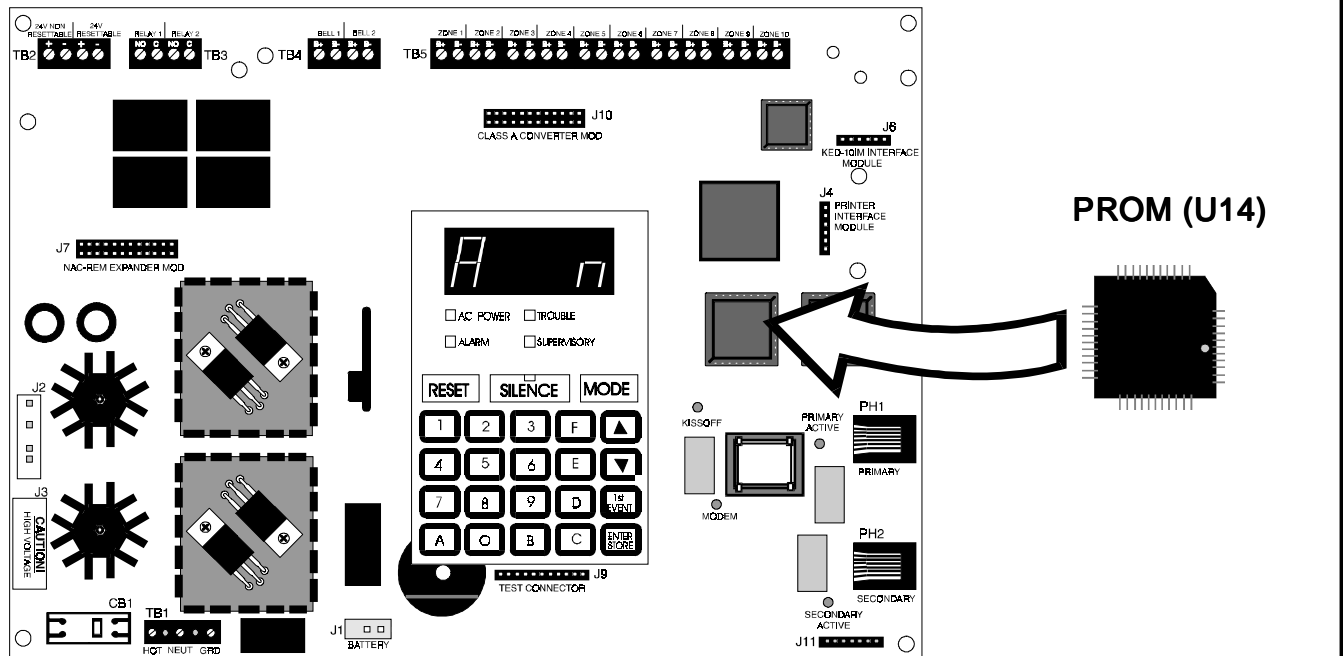


## **PROM Replacement**

Observe proper orientation of any IC removed or installed! To replace the PROM, complete the following steps:

1. Remove all power (AC and battery) before proceeding with PROM replacement.
2. If necessary, disconnect any installed option modules which may inhibit access to PROM.
3. Locate U14 in the center right of the Unimode 10 board (refer to the illustration on the following page).
4. Replace the PROM in U14 using a static-free PLCC IC extraction tool as follows:
  - a) Insert hooks of IC extraction tool into the slots of the IC socket (refer to illustration below).
  - b) Gently squeeze the handles of the removal tool and pull to lift the existing firmware IC from the socket.
  - c) It is necessary to save the removed firmware IC for return to Fire•Lite in order to receive labor credit.
  - d) Line up the replacement IC so that its polarization corner (flattened) is aligned with the polarization corner of the socket. Insert the replacement IC by gently pushing it into the socket. The IC should be flushed with the socket.
5. Reconnect any option modules which were removed in Step 2.
6. Reconnect power (AC and battery).





**Programming and Testing**

Recheck all site-specific programming and test the Unimode 10 after PROM replacement.

**Unimode 10 Software Changes**

The following Table summarizes the Unimode 10 software changes, specifying these changes by PROM Number and Release Number.

PROM #	Release #	Summary of Changes
73820	1.0	Initial Release.
#MS52102.0	2.0	Correction for Notification Appliance Circuit activation with open circuit condition.
#MS52103.0	3.0	Enhancements for Upload/Download feature.
#MS52103.1	3.1	Year 2000 fix. Correction for switch input fault.
#MS52103.2	3.2	Printer parity fix.